

# SAFETY DATA SHEET



Date Issued : 2/25/2016

SDS No : Trivant

## Trivant

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Trivant  
**GENERIC NAME:** Herbicide

#### DISTRIBUTOR

Innvictis Crop Care, LLC  
 4850 Hahns Peak Drive, Suite 200  
 Loveland, CO 80538

**EPA REG. NO.:** 89167-49-89391

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

24-Hour Emergency Assistance Call: 1-800-222-1222  
 Chemical Emergency Call CHEMTREC: 1-800-424-9300

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

##### Health:

Acute Toxicity (Oral), Category 4  
 Acute Toxicity (Inhalation), Category 5  
 Skin Irritation, Category 3  
 Eye Irritation, Category 2A  
 Aspiration Hazard, Category 2  
 Carcinogenicity, Category 2  
 Target Organ Toxicity (Repeated exposure), Category 2

##### Environmental:

Acute Hazards to the Aquatic Environment, Category 2

#### GHS LABEL



Exclamation  
mark



Health  
hazard

**SIGNAL WORD:** WARNING

#### HAZARD STATEMENTS

H302: Harmful if swallowed.  
 H305: May be harmful if swallowed and enters airways.  
 H316: Causes mild skin irritation.  
 H319: Causes serious eye irritation.  
 H333: May be harmful if inhaled.  
 H351: Suspected of causing cancer.  
 H373: May cause damage to liver, kidneys, blood chemistry, gross motor function, central nervous system, bone marrow or respiratory tract through prolonged or repeated exposure.  
 H401: Toxic to aquatic life.

#### PRECAUTIONARY STATEMENTS

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**General:**

- P101: If medical advice is needed, have product container or label at hand.  
 P102: Keep out of reach of children.  
 P103: Read label before use.

**Prevention:**

- P201: Obtain special instructions before use.  
 P202: Do not handle until all safety precautions have been read and understood.  
 P260: Do not breathe mist, vapors or spray.  
 P264: Wash hands, face and other affected areas thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.  
 P273: Avoid release to the environment.  
 P281: Use personal protective equipment as required.

**Response:**

- P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P330: Rinse mouth.  
 P331: Do NOT induce vomiting.  
 P304+P312: IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.  
 P332+P313: If skin irritation occurs: Get medical advice/attention.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313: If eye irritation persists: Get medical advice/attention.  
 P308+P313: IF exposed or concerned: Get medical advice/attention.  
 P314: Get medical advice/attention if you feel unwell.

**Storage:**

- P405: Store locked up.

**Disposal:**

- P501: Dispose of contents/container to Local, State and Federal Regulations.

**COMMENTS:** Read all precautions of products being handled and follow the most restrictive language for all products to provide the safest work environment.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt.%	CAS
2,4-Dichlorophenoxyacetic Acid, 2-Ethylhexyl Ester	31.22	1928-43-4
Bromoxynil Octanoate (iso)	24.01	1689-99-2
Fluroxypyr, 1-Methylheptyl Ester	9.5	81406-37-3
Other Ingredients	<= 35.27	Mixture
Solvent Naphtha	<= 10	64742-94-5

**4. FIRST AID MEASURES**

**EYES:** Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

**SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**INGESTION:** Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a doctor or poison control center. Do not give any liquid to person. Never induce vomiting or give diluents to someone who is unconscious.

**INHALATION:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**NOTES TO PHYSICIAN:** Contains petroleum distillates. Vomiting may cause aspiration pneumonia. Have the product container label with you when calling a poison control center or doctor, or going for treatment.

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**ADDITIONAL INFORMATION:** Have the product container or label with you when calling a poison control center or doctor, or going in for treatment. For emergency medical assistance call **NPCC 1-800-222-1222** or call **CHEMTREC 1-800-424-9300**.

## 5. FIRE FIGHTING MEASURES

**GENERAL HAZARD:** Toxic fumes may be emitted in a fire situation.

**EXTINGUISHING MEDIA:** Foam, dry chemical, CO<sub>2</sub>, water spray or fog.

**EXPLOSION HAZARDS:** No specific explosion hazards are identified or expected. Always fight fire with the implication that other volatile substances may be present.

**FIRE FIGHTING PROCEDURES:** Evacuate area and fight fire upwind a safe distance to avoid hazardous vapors and decomposition products. Fire exposed containers can build up pressure and should be kept cool with water spray if possible. Explosive vapor could form from ruptured containers. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

**FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Immediately pick up spilled liquid with absorbent material and sweep up for disposal. Place it and damaged unusable containers in a landfill appropriate for non hazardous chemical waste. Wash the contaminated area with detergent and soap solution. Check local, state, and federal regulations for proper disposal.

**LARGE SPILL:** Immediately dike around the spill area to prevent spreading. Pick up spilled material with suitable absorbent material and place in appropriate container for disposal. Place it and unusable containers in a landfill appropriate for non hazardous chemical waste. Check local, state, and federal regulations for proper disposal.

### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Do not contaminate any body of water.

**LAND SPILL:** Avoid runoff onto any adjacent land.

**SPECIAL PROTECTIVE EQUIPMENT:** Always wear proper protective equipment when handling this product.

## 7. HANDLING AND STORAGE

**HANDLING:** Wash hands after handling, before eating, drinking, chewing gum, using tobacco, or using the toilet. Avoid contact with eyes and contact with skin. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**STORAGE:** Store locked up. Store in a cool dry place away from heat and open flames. Store product above 32°F or warm and agitate before use.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear chemical goggles or shielded safety glasses (ANSI Z87.1 or approved equivalent) when handling and mixing product. Contact lenses should not be worn when working with chemicals.

**SKIN:** Wear chemical resistant gloves such as Viton or barrier laminate, Coveralls over long-sleeved shirt, long pants and chemical resistant footwear plus socks. Chemical resistant headgear for overhead exposure. When exposed to product concentrate, wear a chemical resistant apron. Always refer to the label of the pesticide(s) in the tank mix and follow the most restrictive requirements.

**RESPIRATORY:** Work in a well ventilated area. Avoid exposure to airborne contaminants. Wear a NIOSH/MSHA approved dust mask or filter when vapors or dust are generated above the permissible limit.

**PROTECTIVE CLOTHING:** Eye protection, long sleeved shirt and long pants, shoes plus socks and chemical resistant gloves. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent

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and hot water. Keep and wash PPE separately from other laundry.

**OTHER USE PRECAUTIONS:** Avoid contact with skin, eyes, and clothing. Avoid breathing vapors. Wash thoroughly after handling product. Eye wash fountains and drench showers should be located within 100 feet or a 10 second walk from the work area per ANSI Z358.1-1990

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**ODOR:** Aromatic

**APPEARANCE:** Liquid

**COLOR:** Amber

**pH:** 3 to 5

**PERCENT VOLATILE:** Not Established

**FLASH POINT AND METHOD:** > (212 °F)

**FLAMMABLE LIMITS:** Not Established

**AUTOIGNITION TEMPERATURE:** Not Established

**VAPOR PRESSURE:** Not Established

**VAPOR DENSITY:** Not Established

**BOILING POINT:** Not Established

**FREEZING POINT:** Not Established

**MELTING POINT:** Not Established

**POUR POINT:** Not Established

**THERMAL DECOMPOSITION:** Not Established

**SOLUBILITY IN WATER:** Emulsifies

**EVAPORATION RATE:** Not Established

**DENSITY:** 9.6 lbs. / gal.

**SPECIFIC GRAVITY:** 1.156 g/mL at 20 °C

**VISCOSITY #1:** 38.875 Centistokes

**COMMENTS:** These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

## 10. STABILITY AND REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Excessive heat and open flames.

**INCOMPATIBLE MATERIALS:** Strong oxidizing agents, acids, and bases.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**DERMAL LD<sub>50</sub>:** > 5000 mg/kg

**ORAL LD<sub>50</sub>:** 1030 mg/kg

**INHALATION LC<sub>50</sub>:** > 2.10 mg/L

**EYE EFFECTS:** Causes serious eye irritation.

**SKIN EFFECTS:** Causes mild skin irritation.

### CARCINOGENICITY

**Notes:** Prolonged overexposure to phenoxy herbicides can cause liver, kidney and muscle damage. The International Agency for Research on Cancer (IARC) lists exposure to chlorophenoxy herbicides as a class 2B carcinogen. The U.S. EPA has

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classified bromoxynil as a Class C carcinogen. The hydrocarbon component may contain naphthalene, which is listed by IARC as a Class 2B and the U.S. National Toxicology Program as reasonably anticipated to be a human carcinogen.

**TARGET ORGANS:** Repeated overexposure to phenoxy herbicides (2,4-D) may cause effects to liver, kidneys, blood chemistry, and gross motor function. Rare cases of peripheral nerve damage have been reported, but extensive animal studies have failed to substantiate these observations, even at high doses for prolonged periods. Repeated overexposure to bromoxynil may cause effects to liver, kidneys and central nervous system. Repeated overexposure to Fluroxypyr may cause effects to bone marrow, kidney, liver and respiratory tract.

**COMMENTS:** These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** This pesticide is toxic and estuarine and marine invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water or rinsate.

### AQUATIC TOXICITY (ACUTE)

**96-HOUR LC<sub>50</sub>:** 7.2 mg/L (Rainbow Trout)

**48-HOUR EC<sub>50</sub>:** > 5 mg/L Daphnia

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Do not reuse product containers. Triple rinse (or equivalent), then offer for recycling at an ACRC site (go to <http://www.acrecycle.org/> for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by local, state, and federal regulations.

## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** < 33 gallons per complete package Non Regulated

>= 33 but < 119 gallons per complete package UN 3082, Environmentally hazardous substance, liquid, n.o.s. (2,4-D acid), 9, III,

>= 119 gallons per complete package UN 3082, Environmentally hazardous substance, liquid, n.o.s. (2,4-D Acid, Bromoxynil Octanoate), 9, III, RQ, Marine Pollutant

## 15. REGULATORY INFORMATION

### UNITED STATES

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** Acute, Chronic

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

**313 REPORTABLE INGREDIENTS:** 2,4-D 2-ethylhexyl ester (CAS No. 1928-43-4) - 31.22% by weight in product

Bomoxynil Octanoate (CAS No. 1689-99-2) - 24.01% by weight in product

Naphthalene (CAS No. 91-20-3) - <3.1% by weight in product

#### EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt. %	CAS
Bromoxynil Octanoate (iso)	24.01	1689-99-2

#### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA RQ:** Acetic Acid, (2,4-Dichlorophenoxy)- (CAS No. 94-75-7) 100 pounds

Naphthalene (CAS No. 91-20-3) 100 pounds

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**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

Chemical Name	CAS
Bromoxynil Octanoate (iso)	1689-99-2
Solvent Naphtha	64742-94-5

**CALIFORNIA PROPOSITION 65:** This product contains chemical(s) known to the state of California to cause cancer, birth defects or other reproductive harm.

Chemical Name	Wt.%	Listed
Bromoxynil Octanoate (iso)	24.01	<ul style="list-style-type: none"> <li>• Cancer</li> <li>• Developmental Toxicity</li> </ul>

**FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):****Labeling Information:**

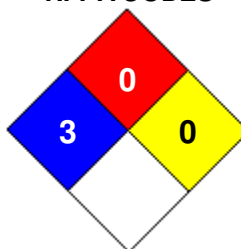
This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**PRECAUTIONARY STATEMENTS****HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION - PRECAUCION**

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

**16. OTHER INFORMATION**

**REASON FOR ISSUE:** New Product

**NFPA CODES****GENERAL STATEMENTS: DISCLAIMER AND LIMITATION OF LIABILITY**

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